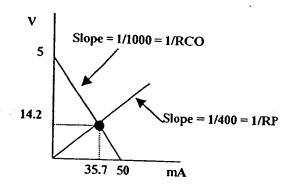


Fig. 1 B

V/I Loadline

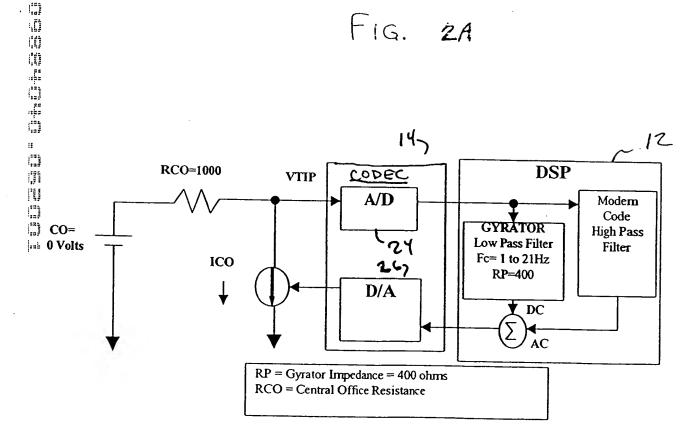


50 - ICO*RCO = ICO*RP =VP ICO=14.27 mA

VP=35.7 Volts

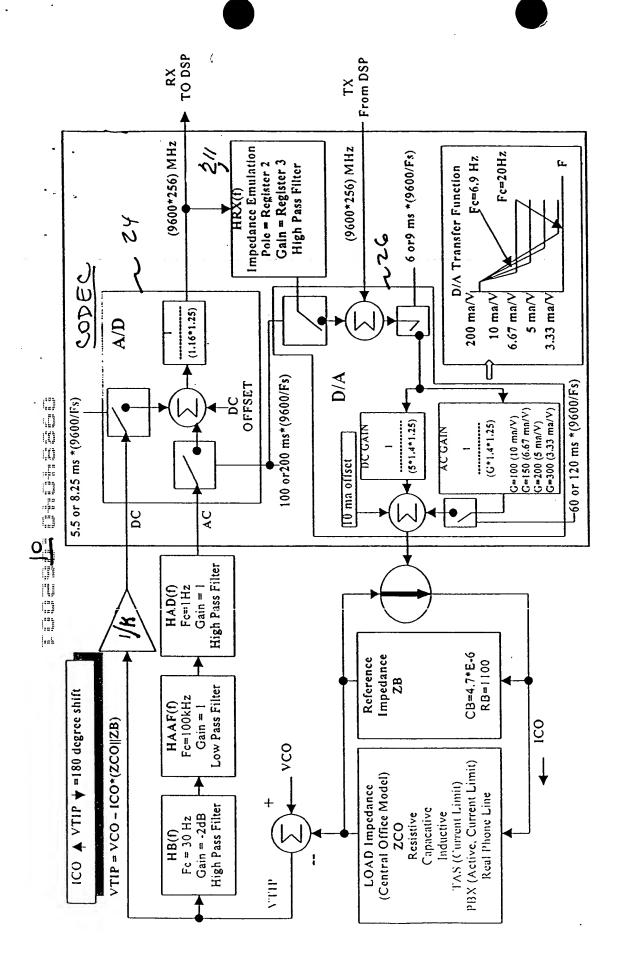
Note: All results are at steady state

FIG. ZA



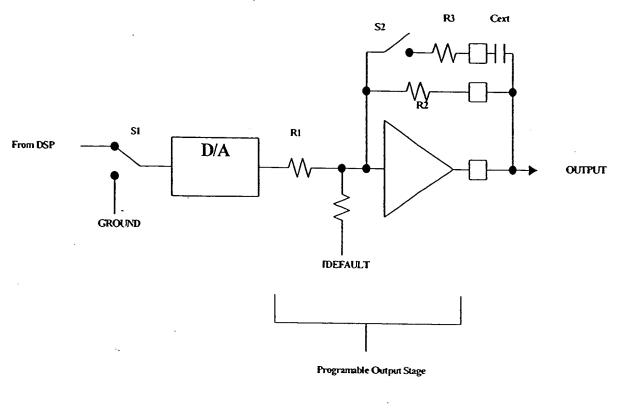
DYNAMICALLY ADJUSTABLE **Digital Gyrator Example**

FIG. 2B



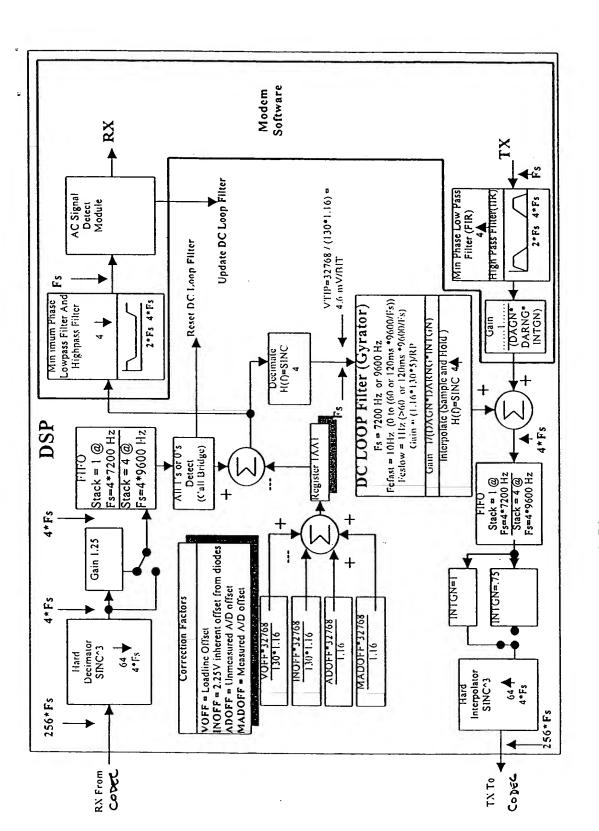
ക്കാല and Telephone System Stability Block Diagram

F16. 3



Simplified D/A Path

F16. 4



DSP Based Gyrator Block Diagram

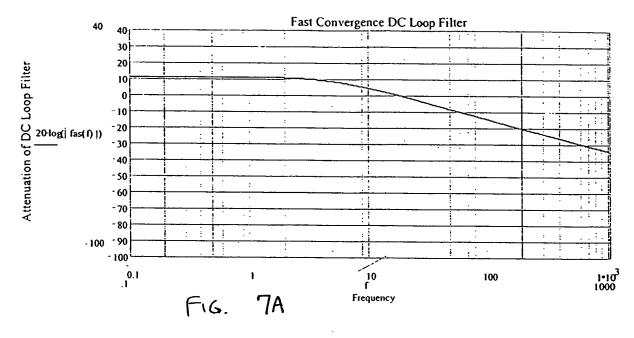
F19.

The state state state is in the state in the state state in the state

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 $H(z) = \frac{Input Gain}{1 - POLE *Z^-1}$

FIG. 6



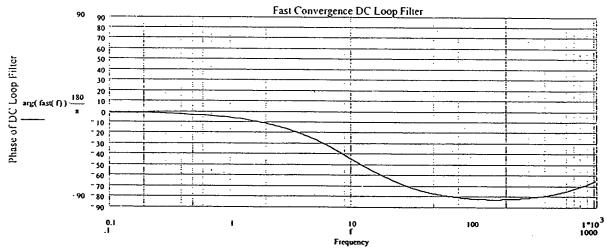


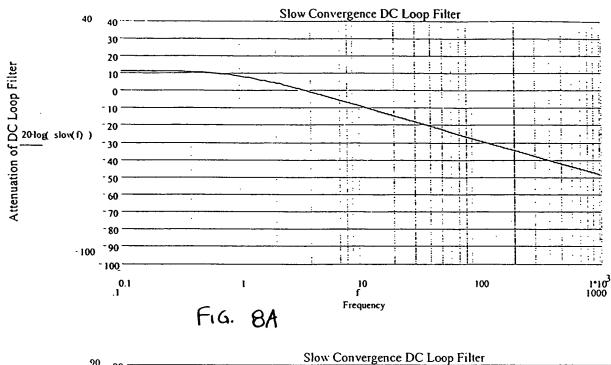
Fig. 7B

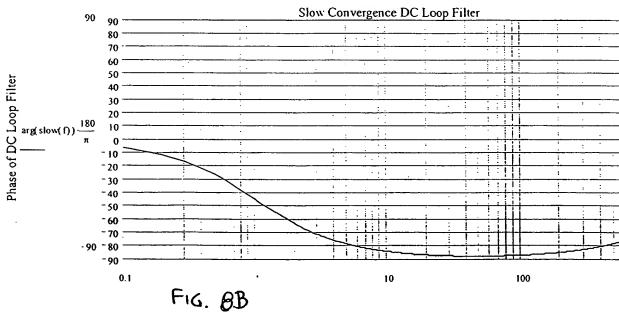
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The state of the s

10 Hz Fast DC Loop Filter Gain and Phase





1 Hz Slow DC Loop Filter Gain and Phase

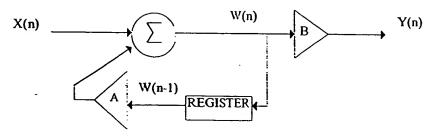
Tart of R their H H Staff Staff Staff Shift

12

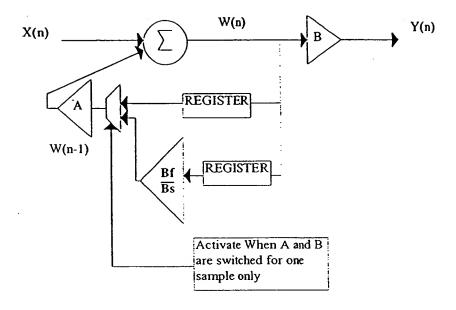
(1)

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First Order Filter Topology



Final Low Pass Topology with glitch removed

F16. 10

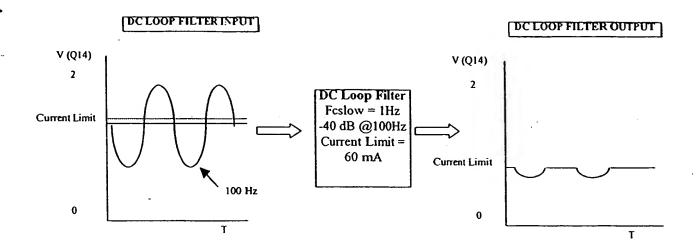


FIG. 11A

DC Loop Filter Without Hysterysis

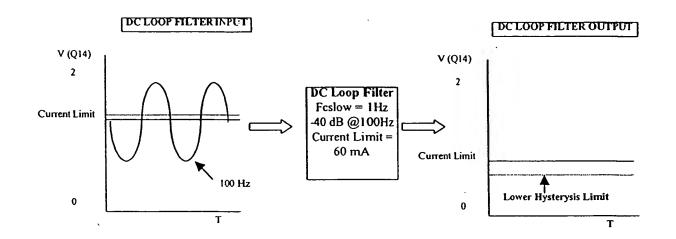


Fig. $\parallel \beta$ DC Loop Filter With Hysteresis

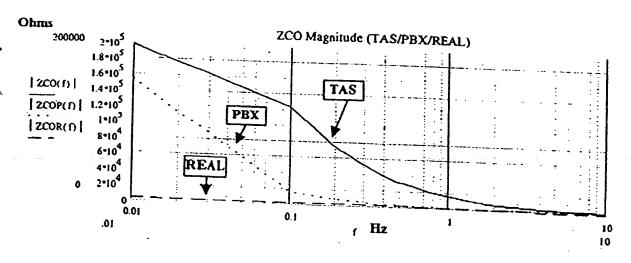
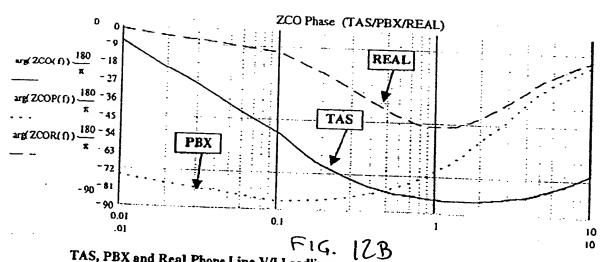
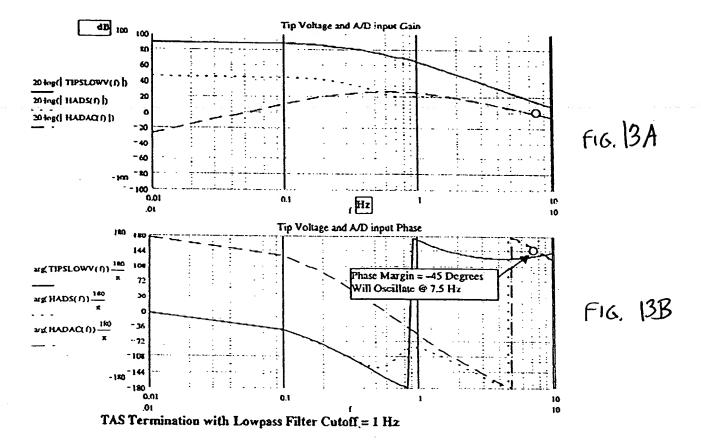


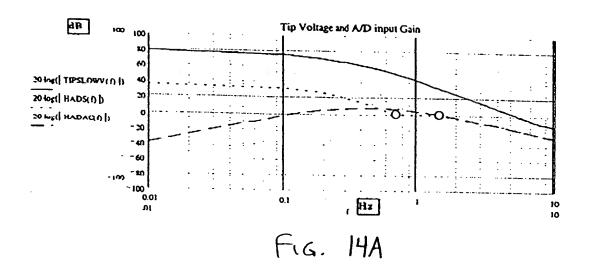
Fig. 12A

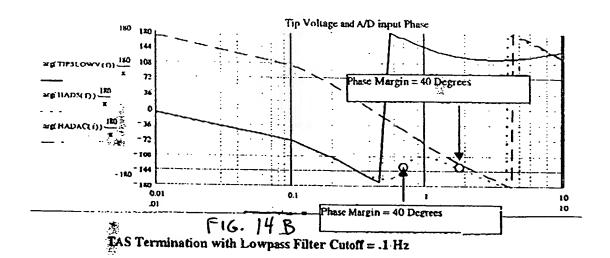


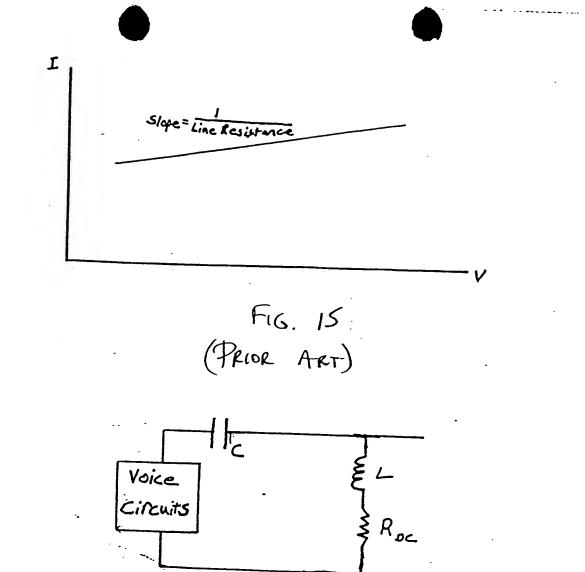
TAS, PBX and Real Phone Line V/I Loadlines

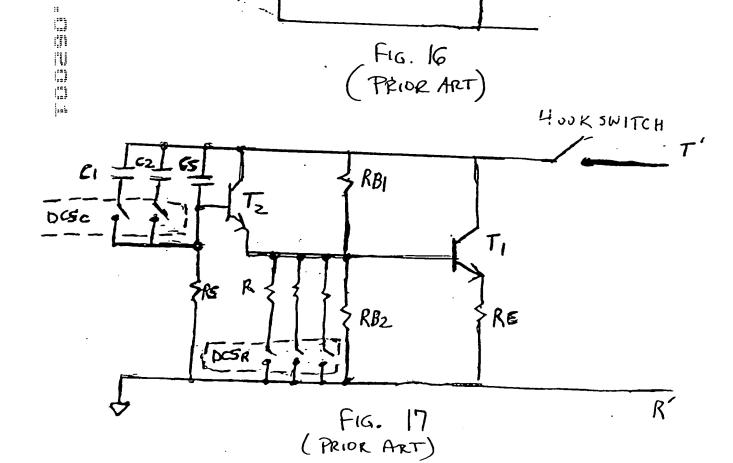


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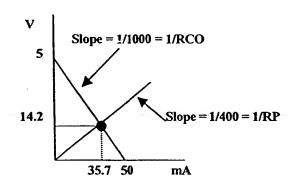






The state of the s

V/I Loadline



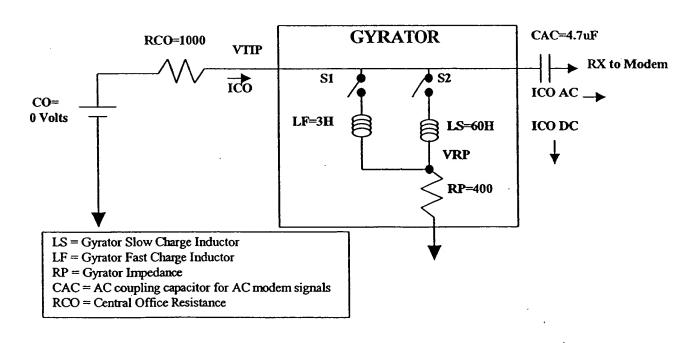
50 - ICO*RCO = ICO*RP =VTIP ICO=14.27 mA

ICO=14.27 mA VP=35.7 Volts

Note: All results are at steady state

TRIOR ART

FIG. 18A



Basic External Gyrator Example

FIG. 18B PRIOR MA